

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
3 March 2005 (03.03.2005)

PCT

(10) International Publication Number
WO 2005/019269 A3

(51) International Patent Classification⁷: **C07K 16/30**,
A61K 39/395, A61P 35/00, G01N 33/53, C12N 15/13,
15/63, 5/10, C07K 14/71, G01N 33/574

(21) International Application Number:
PCT/US2004/027954

(22) International Filing Date: 26 August 2004 (26.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/498,260 26 August 2003 (26.08.2003) US

(63) Related by continuation (CON) or continuation-in-part
(CIP) to earlier application:
US 09/996,069 (CIP)
Filed on 27 November 2002 (27.11.2002)

(71) Applicant (for all designated States except US): **MIN-
ERVA BIOTECHNOLOGIES CORPORATION**
[US/US]; 6th Floor Rosenstiel Bldg., M/S 029, 415 South
Street, Waltham, MA 02454-9110 (US).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **BAMDAD, Cynthia,**

C. [US/US]; 356 Marlborough Street, #2, Boston, MA
02116 (US).

(74) Agent: **OYER, Timothy, J.**; Wolf, Greenfield & Sacks,
600 Atlantic Avenue, Boston, MA 02210 (US).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SI, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US (patent), UZ, VC, VN, YU,
ZA, ZM, ZW.

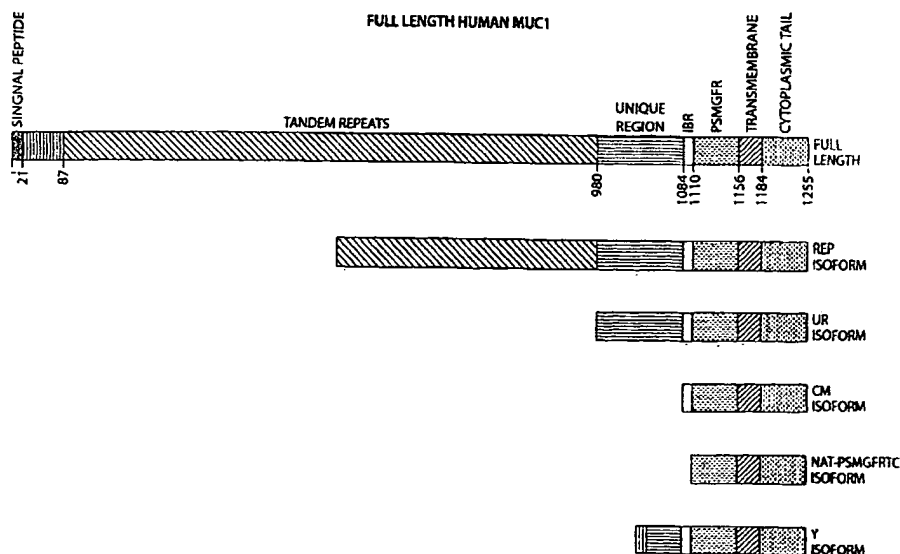
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,
GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

[Continued on next page]

(54) Title: **TECHNIQUES AND COMPOSITIONS FOR THE DIAGNOSIS AND TREATMENT OF CANCER (MUC1)**



(57) Abstract: The invention provides a series of compositions, methods, kits, articles and species associated primarily with the diagnosis and/or treatment of cell proliferation, specifically cancer. Cell proliferation associated with aberrant expression of MUC1 is particularly focused upon. Mechanisms associated with MUC1 cell proliferation are discussed.